

# PERSONAL AUTHENTICATION SYSTEM AND PORTABLE ELECTRONIC DEVICE HAVING PERSONAL AUTHENTICATION FUNCTION USING BODY INFORMATION

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## Abstract of WO 0142938 (A1)

In a system where, for example, it is necessary to input the personal identification number of a card such as a debit card to carry out personal authentication, the input of the personal identification number and personal authentication using body information which cannot be stolen nor copied are linked to prevent the personal identification number from being leaked or stolen, thereby assuring high security performance and performing safe personal authentication. Collating body feature data is sent to a portable electronic device (300) from a first transmission/reception interface (205) of a data processor (200). A body feature data collating section (306) of the portable electronic device (300) compares and collates the collating body feature data received at a second transmission/reception interface (301) with registered body feature data.; If the collating body feature data, as a result of the collation, satisfies predetermined conditions with respect to the registered body feature data, the personal identification number is sent to a managing device (400) from the second transmission/reception interface (301) via the first transmission/reception interface (205).

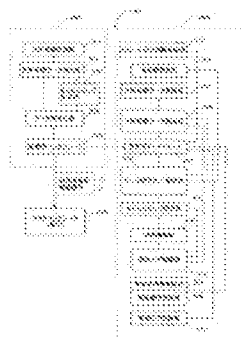


FIG. 1 is a block diagram of a personal authentication system according to the present invention. The system includes a data processor 200 and a portable electronic device 300. The data processor 200 includes a managing device 400 and a first transmission/reception interface 205. The portable electronic device 300 includes a second transmission/reception interface 301 and a body feature data collating section 306. The first transmission/reception interface 205 is connected to the second transmission/reception interface 301. The body feature data collating section 306 is connected to the second transmission/reception interface 301. The managing device 400 is connected to the first transmission/reception interface 205. The data processor 200 is connected to the portable electronic device 300 via the first transmission/reception interface 205 and the second transmission/reception interface 301. The body feature data collating section 306 compares and collates the collating body feature data received at the second transmission/reception interface 301 with registered body feature data. If the collating body feature data, as a result of the collation, satisfies predetermined conditions with respect to the registered body feature data, the personal identification number is sent to the managing device 400 from the second transmission/reception interface 301 via the first transmission/reception interface 205.

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